

Updating the ITS Architecture for Canada Phase II -English Update and Scoping for French Update

Webinar Part 2: Review of Proposed Update Approach and Stakeholder Feedback

July 31, 2019 1:30 pm – 3:30 pm EDT

MENTI

Use computer or mobile to access:

menti.com

Accesscode: **18 69 63**

Note: multiple









1.0 Review of Part 1 Webinar

2.0 Proposed Approaches for Update

3.0 Next Steps







1.0 Review of Part 1 Webinar



Transport Transports Canada

\\SD

'Quicker' ITS Architecture Primer

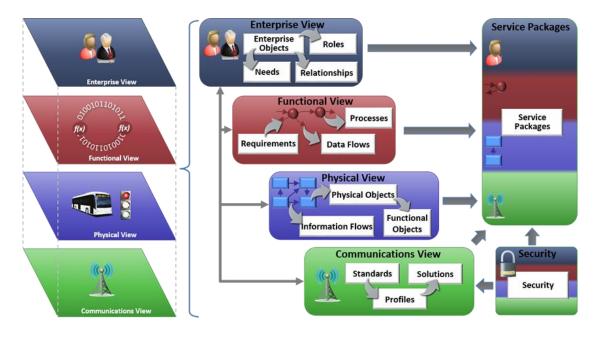
vsp

What is a National ITS Architecture?

A National ITS Architecture provides a common framework for planning, defining, and integrating intelligent transportation systems.

Reference Architecture

- Non-specific identifying physical systems by generic terms
- Functionally oriented and not technology specific
- Not design prescriptive, identifying adaptable physical frameworks and in many cases multiple options for deployment

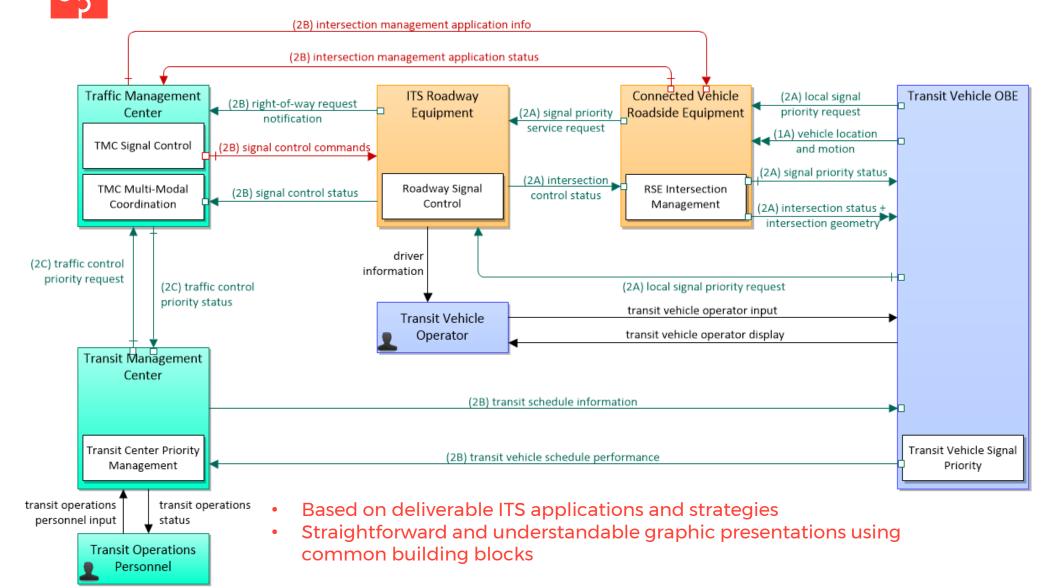




vsp

6

Service Packages – example: Transit Signal Priority

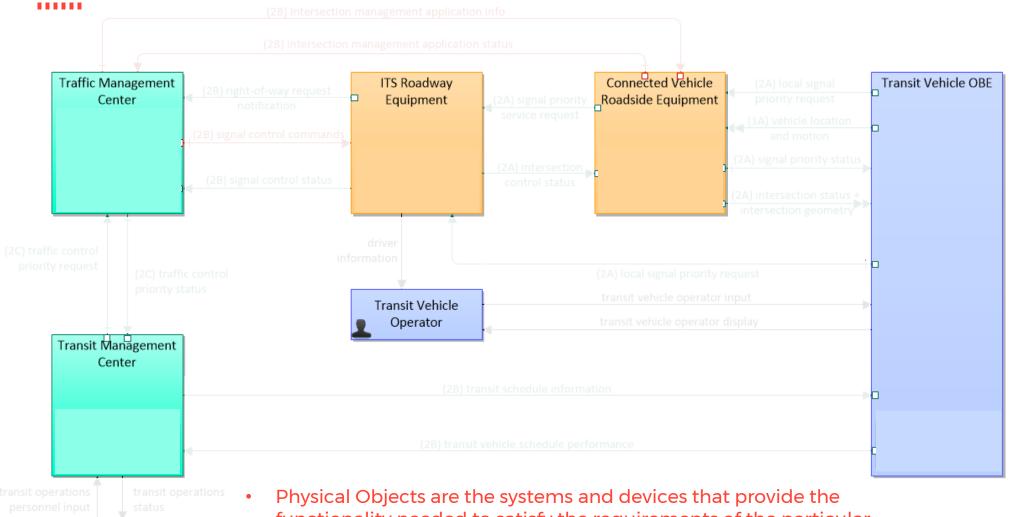






Transit Operations

Personnel



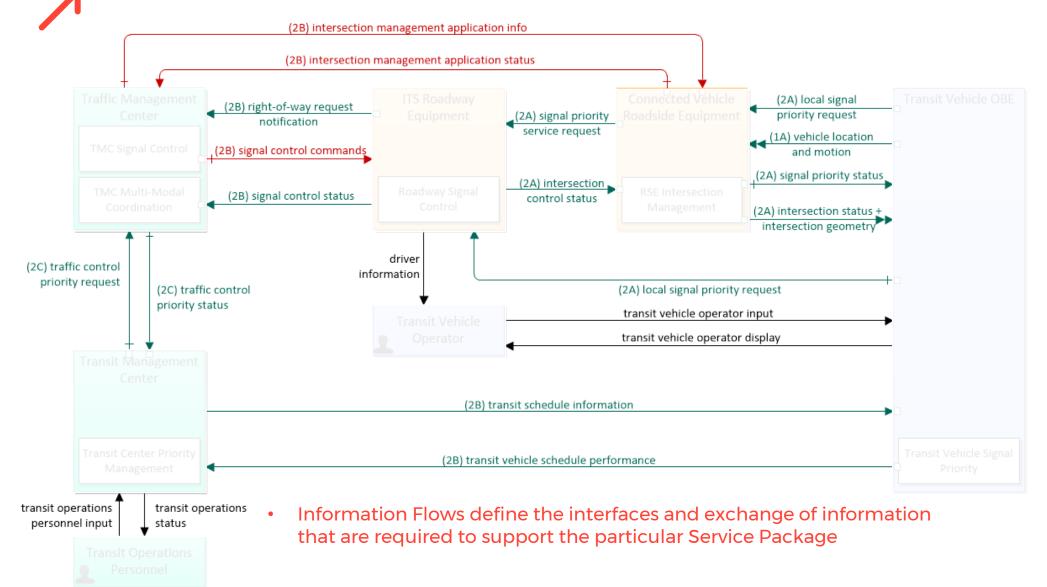
Physical Objects are the systems and devices that provide the functionality needed to satisfy the requirements of the particular Service Package

****\$D





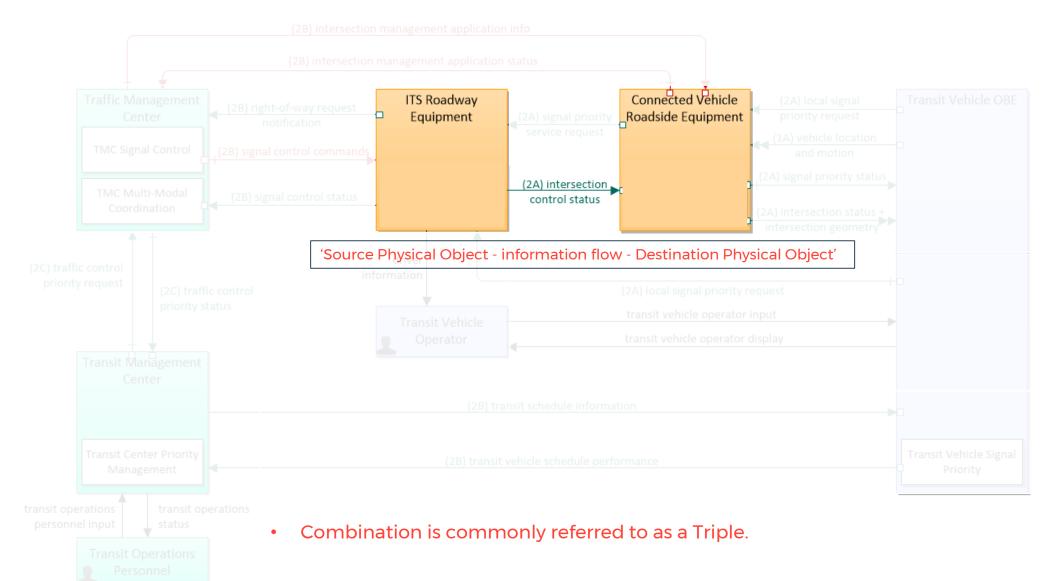
Information Flows



vsp



GE Triples

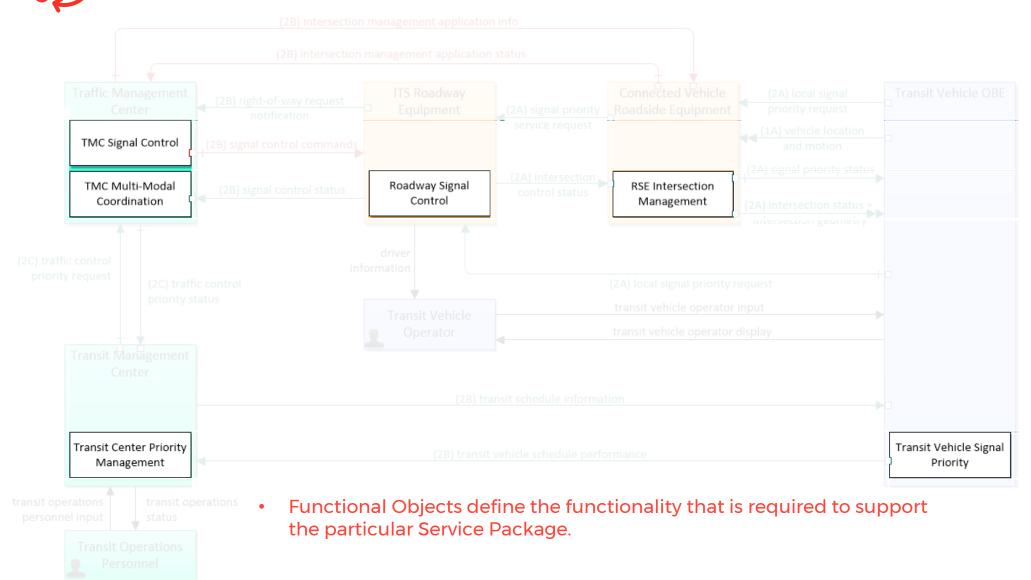








Functional Objects





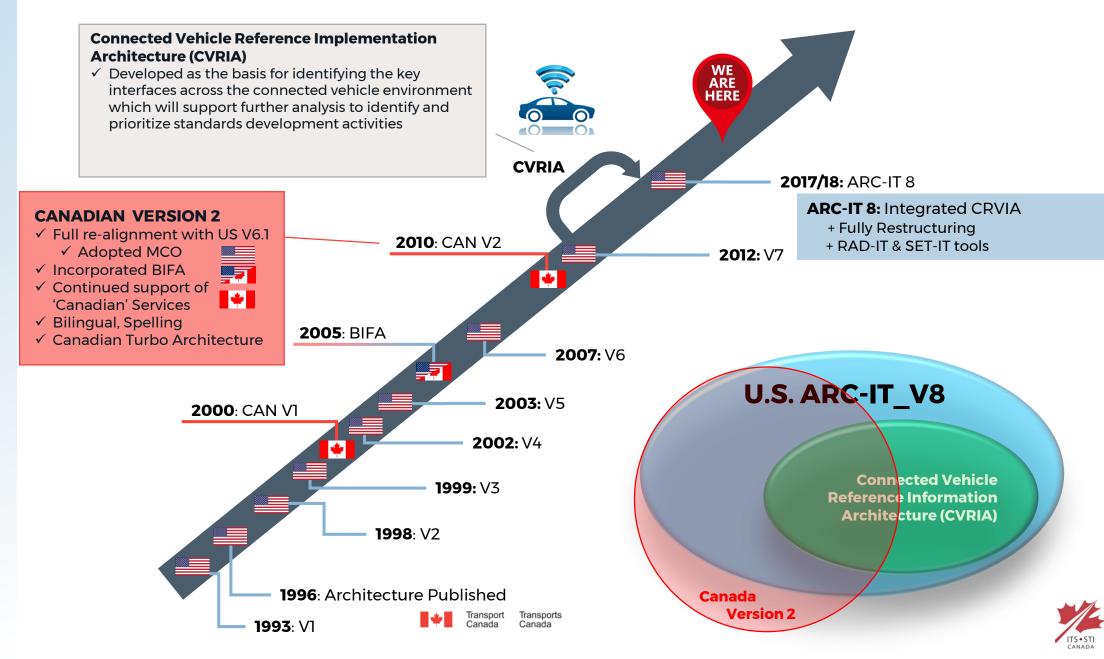
11



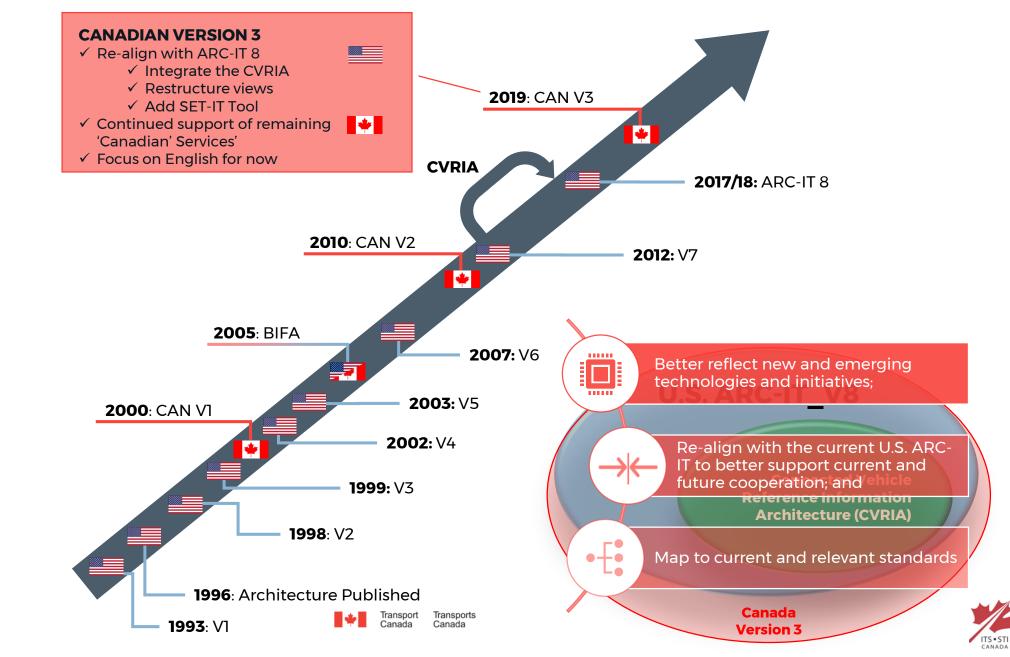
Background and Project Scope

wsp

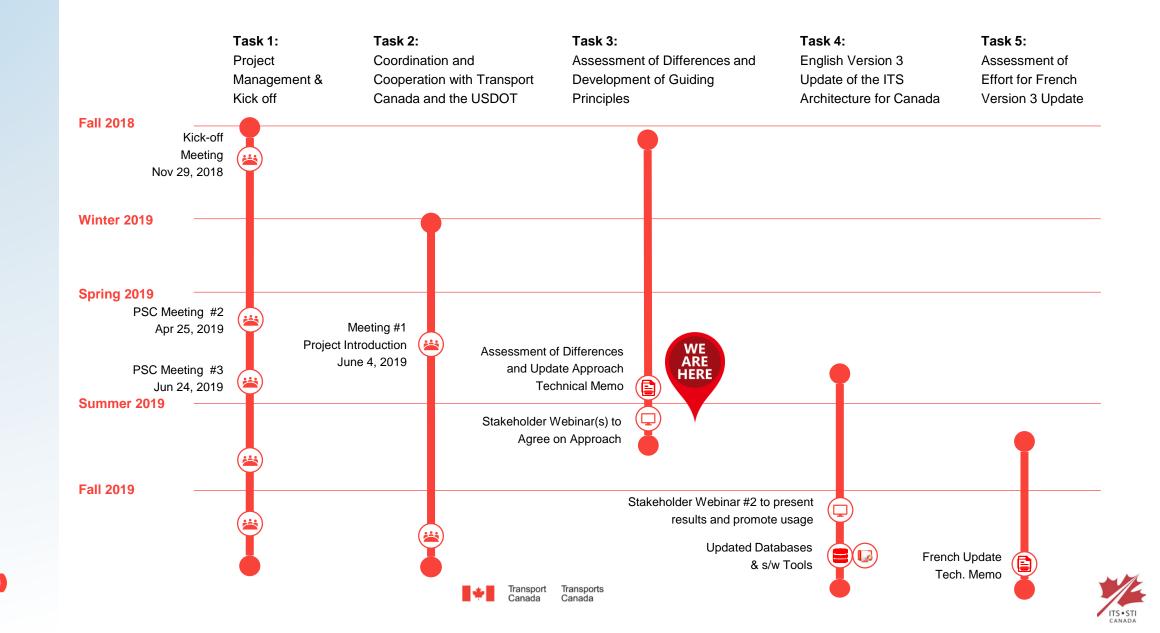
Relationship Between U.S. and Canadian Architectures



Version 3 Update of the ITS Architecture for Canada



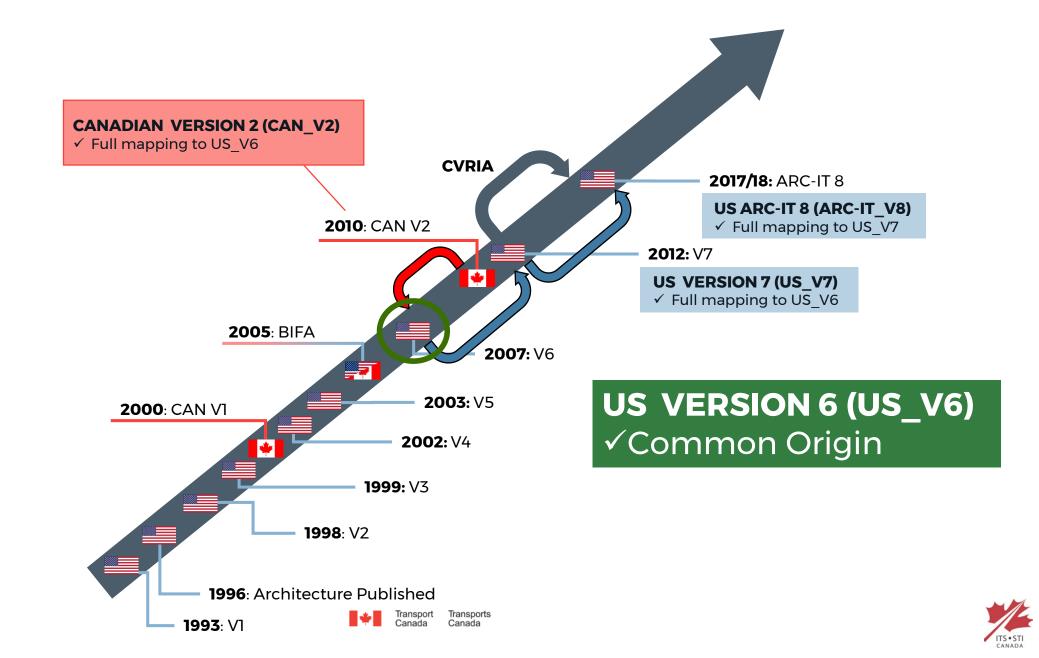
Project Work Plan



Assessment of Differences

NSD

How to Compare and Assess Differences



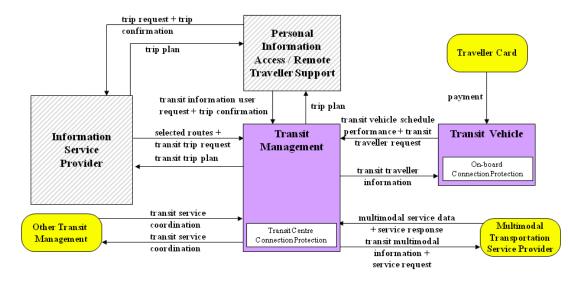
How is a Service Package Assessed as 'Fully Unique' or 'New'?



US_V6 Service Package

CAN_V2 Service Package

APTS101 – Multi-Modal Connection Protection



Fully Unique Service Package (in comparison to US_V6)



NONE

\\S|}



Unique CAN_V2 Service Packages

Service Package	Name	Scope/Function
APTS101	Multi-Modal Connection Protection	Multi-modal coordination for travellers, across agencies.
ATMS101	Dynamic Roadway Warning	 Warnings generated based on local conditions (e.g. traffic, weather).
ATMS102	Signal Enforcement	Red light cameras.
ATMS103	Standard Mixed Use Warning Systems	Near-term sensing and warning for pedestrians/cyclists.
ATMS104	Advanced Mixed Use Warning Systems	Advanced sensing and warning for pedestrians/cyclists.
CV0101	Freight Terminal Management	Supports operations of an intermodal terminal.
CVO102	International Border Registration	• Registration and enrollment of carriers, drivers, etc.
CVO103	International Border Pre- Processing	 Submission and pre-processing of manifest data.
CVO104	International Border Inspection	Inspection services at the border.
MC101	Roadway Micro-Prediction	 Very localized forecasting of roadway conditions to support maintenance operations.







New ARC-IT_V8 Service Packages



Service Package	Name	Service Package	Name
CVO06	Freight Signal Priority	SU01	Connected Vehicle System Monitoring and
CVO09	Freight-Specific Dynamic Travel Planning		Management
CVO10	Road Weather Information for Freight Carriers	SU02	Core Authorization
CVOII	Freight Drayage Optimization	SU04	Map Management
DM02	Performance Monitoring	SU05	Location and Time
PM02	Smart Park and Ride System	SU06	Object Registration and Discovery
PM06	Loading Zone Management	SU07	ITS Communications
PS06	Incident Scene Pre-Arrival Staging Guidance for	SU08	Security and Credentials Management
	Emergency Responders	SU09	Device Certification and Enrollment
PS07	Incident Scene Safety Monitoring	SU10	Center Maintenance
PTIO	Intermittent Bus Lanes	SU11	Field Equipment Maintenance
PTII	Transit Pedestrian Indication	SU12	Vehicle Maintenance
PT12	Transit Vehicle at Station/Stop Warnings	SU13	Personal Device Maintenance
PT13	Vehicle Turning Right in Front of a Transit	TM04	Connected Vehicle Traffic Signal System
	Vehicle	TM11	Road Use Charging
PT15	Transit Stop Request	TM12	Dynamic Roadway Warning
PT16	Route ID for the Visually Impaired	TM20	Variable Speed Limits
PT17	Transit Connection Protection	TM21	Speed Harmonization
ST02	Eco-Traffic Signal Timing	TM22	Dynamic Lane Management and Shoulder
ST03	Eco-Traffic Metering		Use
ST05	Electric Charging Stations Management	TM23	Border Management Systems
ST08	Eco-Approach and Departure at Signalized	VS07	Road Weather Motorist Alert and Warning
	Intersections	VS08	Queue Warning
ST09	Connected Eco-Driving	VS12	Pedestrian and Cyclist Safety
STIO	Low Emissions Zone Management	VS17	Traffic Code Dissemination





Transports

Canada



Transport

Canada

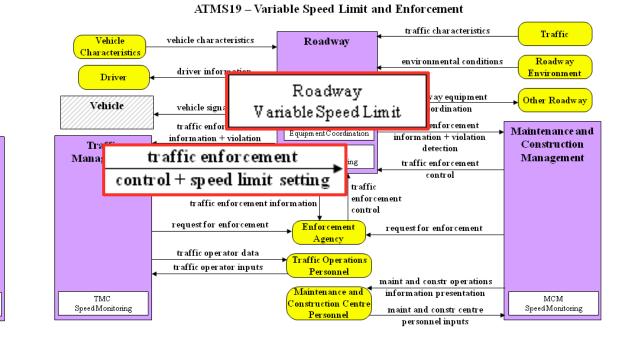
Transports

Canada



US_V6 Service Package

CAN_V2 Service Package



Service Package with Unique Elements (in comparison to US V6)



driver information roadway equipment Driver Other Roadway Roadway coordination vehicle characteristics traffic characteristics Vehicle Traffic Characteristics . Roadway speed monitoring environmental conditions Traffic Environment information Roadwav Management Equipment Coordination speed monitoring speed monitoring information Maintenance and Roadway control Construction Speed Monitoring speed monitoring Management control traffic violation notification + speed monitoring speed monitoring information control request for enforcement Enforcement request for enforcement Agency traffic operator data **Fraffic Operations** traffic operator inputs Personnel maint and constr operations information presentation Maintenance and TMC MCM Construction Center Speed Monitoring Speed Monitoring maint and constr center Personnel personnel inputs

ATMS19 – Speed Monitoring

CAN_V2 Service Packages with Unique Elements



Service Package	Name	Scope/Function
APTS08	Transit Traveller Information	Multi-modal trip planning.
ATIS01	Broadcast Traveller Information	Border wait time data.
ATIS02	Interactive Traveller Information	Border wait time data.
ATMS19	Variable Speed Limit and	Central and local variable speed limits
	Enforcement	Violation detection and enforcement
ATMS21	Roadway Closure Management	Road closure notification
CVO02	Freight Administration	Support for intermodal container and cargo
CVO04	CV Administrative Processes	Commercial vehicle and driver permits/registration
CV007	Roadside CVO Safety	Violation notification to Enforcement Agency
EM10	Disaster Traveller Information	 Shelter information from Emergency Management (indirect)
MC03	Road Weather Data Collection	 Environmental conditions data shared between Traffic Management and Maintenance & Construction Management

1120





Summary of Comparisons to US_V6

Element Type	CAN_V2	ARC-IT_V8
Service Packages (91)	10 Unique	45 New
	10 Modified	81 Updated*
Physical Objects (98)	6 Unique	45 New
	15 Modified	21 Updated
Information Flows (488)	71 New	312 New
Triples (988)	130 New	874 New
Functional Objects (219)	34 New	136 New







Reconciliation by Service Package (example)



CAN_V2

APTS101

Multi-Modal Connection Protection

Fully Unique 🔢

Multi-modal coordination for travellers, across agencies.

ARC-IT_V8

PT17 Transit Connection Protection

Maps fully to ARC-IT_V8 PT17 Transit Connection Protection, including all functional objects.

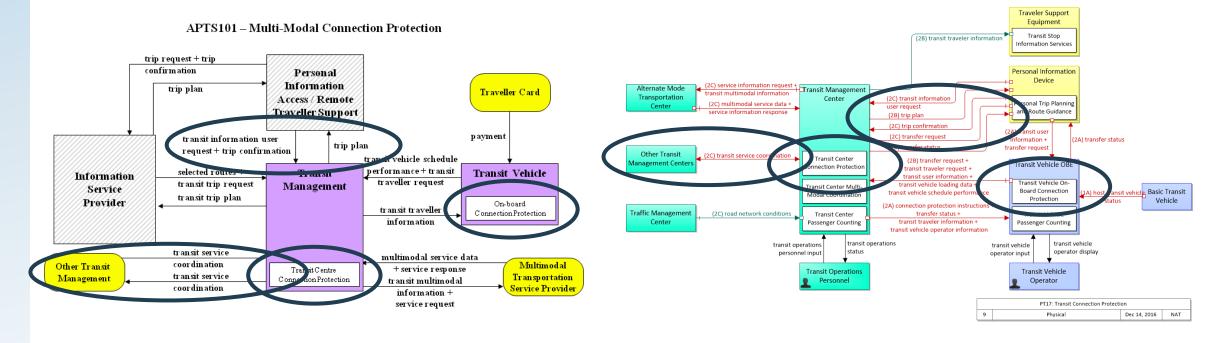






CAN_V2 Service Package

ARC-IT_V8 Service Package



CAN_V2 Service Package maps fully to ARC-IT_V8





25

Reconciliation by Service Package (example)



CAN_V2

International Border Pre-Processing

Fully Unique

CVO103

Registration and enrollment of carriers, drivers, etc.

ARC-IT_V8

cvoos International Border Electronic Clearance

Maps partially to ARC-IT_V8 CVO05 International Border Electronic Clearance.

The following functional objects are not in *ARC-IT_V8*:

Border Pre-Processing



26



How is a Service Package Assessed as remaining Fully Unique?

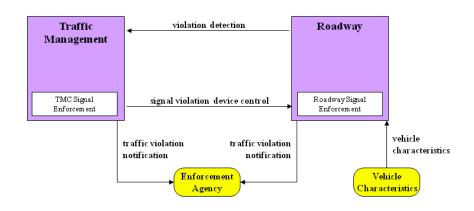


CAN_V2 Service Package

ARC-IT_V8 Service Package

NONE

ATMS102 – Signal Enforcement



CAN_V2 Service Package remains fully unique

vsp



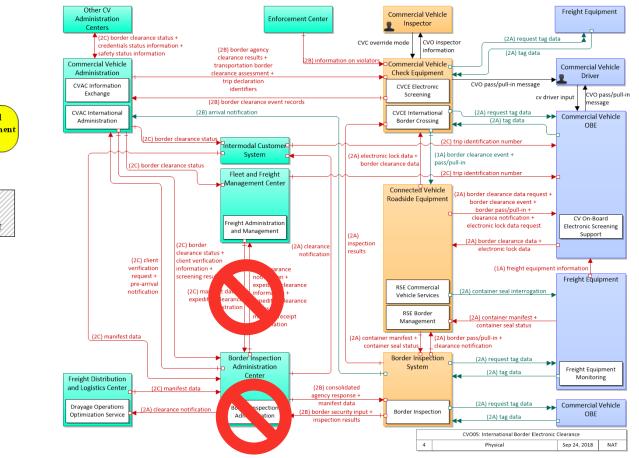
Transport Transports Canada Canada



How is a Service Package Assessed as 'having Unique Elements'?

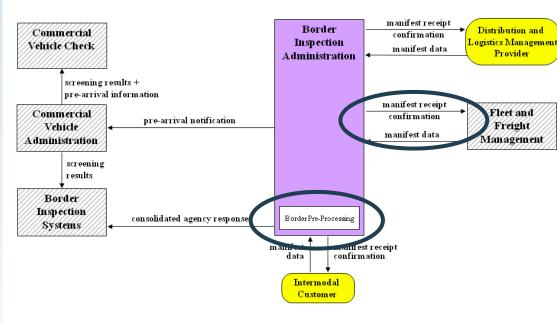


CAN_V2 Service Package



ARC-IT_V8 Service Package

CVO103 – International Border Pre-Processing



CAN_V2 Service Package still includes Unique Elements

vsp

28

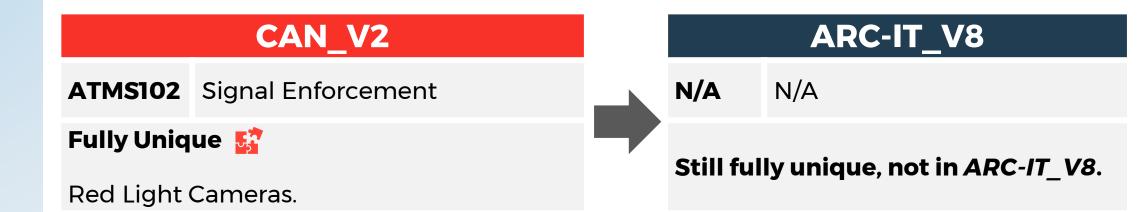


Transport Transports Canada Canada



Reconciliation by Service Package (example)









Transports

Summary of Service Package Reconciliation



CAN_V2 (unique)

APTS08 Transit Traveller Information APTS101 Multi-Modal Connection Protection ATIS01 Broadcast Traveller Information ATIS02 Interactive Traveller Information

ATMS19 Variable Speed Limit and Enforcement

ATMS21 Roadway Closure Management ATMS101 Dynamic Roadway Warning

ATMS102 Signal Enforcement

ATMS103 Standard Mixed Use Warning Systems
ATMS104 Advanced Mixed Use Warning Systems
CV002 Freight Administration
CV004 CV Administrative Processes
CV007 Roadside CVO Safety
CV0101 Freight Terminal Management
CV0102 International Border Registration
CV0103 International Border Pre-Processing
CV0104 International Border Inspection
EM10 Disaster Traveller Information
MC03 Road Weather Data Collection
MC101 Roadway Micro-Prediction

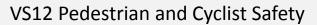
ARC-IT_V8 (mapped)

PT08 Transit Traveler Information*
PT17 Transit Connection Protection
TI01 Broadcast Traveler Information
TI02 Personalized Traveler Information
TM17 Speed Warning and Enforcement
TM20 Variable Speed Limits

TM19 Roadway Closure Management TM12 Dynamic Roadway Warning

N/A

N/A



CVO02 Freight AdministrationCVO04 CV Administrative ProcessesCVO07 Roadside CVO SafetyCVO11 Freight Drayage Optimization

CVO05 International Border Electronic Clearance

ITS • STI

TM23 Border Management Systems

PS14 Disaster Traveler Information

WX01 Weather Data Collection

30

2.0 Proposed Approaches for Update



Transport Transports Canada

\\SD

MENTI

Use computer or mobile to access:

menti.com

Accesscode: **18 69 63**







Governing Principles

vsp

Governing Principles

- Bring the ITS Architecture for Canada up-to-date by realigning with the latest U.S. ARC-IT
- Minimize/avoid differences to the degree possible
- Facilitate the easy adoption of subsequent updates and changes made by the U.S.
- Minimize need for ongoing maintenance



34



MENTI

Use computer or mobile to access:

menti.com

Accesscode: **18 69 63**

Note: multiple





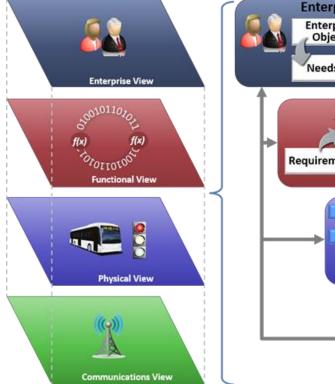


Structure and Organization

NSD

ARC-IT Framework Structure

- Defined around 4 views:
 - **Enterprises** to carry out services
 - **Functions** to implement services
 - Physical objects and information flow to implement that functionality
 - Communications
 protocols required
 for implementation

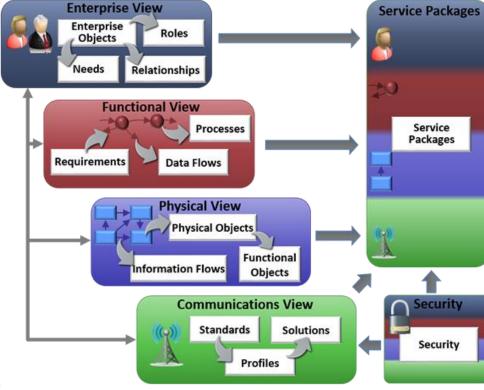


Transport

Canada

Transports

Canada

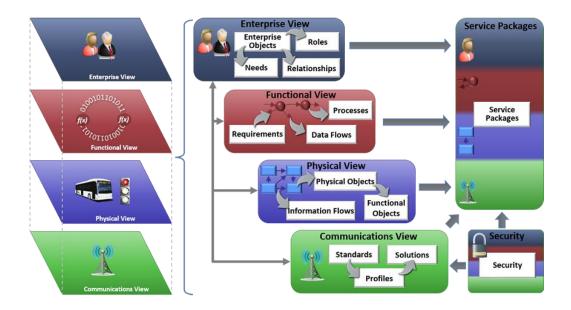




<u>vvs</u>p

Required Approach for CAN_V3 Update - Structure

- To align with the U.S., Canada *must* adopt the ARC-IT framework structure
- All Canadian-unique elements
 must support all 4 views
 - Developing and updating
 Enterprise and Communications
 views
 - Ensuring the format and level of detail is consistent with ARC-IT













ARC-IT Service Package Reorganization



— Example of 137 Service Packages

	US_V6		ARC-IT_V8
CV001 CV009	Fleet Administration CVO Fleet Maintenance	CV001	Carrier Operations and Fleet Management
CVO02	Freight Administration	CV002	Freight Administration
CVO03 CVO06	Electronic Clearance Weigh-In-Motion	CVO03	Electronic Clearance
CVO04	CV Administrative Processes	CVO04	CV Administrative Processes
CVO05	International Border Electronic Clearance	CVO05	International Border Electroni Clearance
*NEW	*NEW	CVO06	Freight Signal Priority
CVO07 CVO08	Roadside CVO Safety On-board CVO and Freight Safety and Security	CV007	Roadside CVO Safety
CVO06 CVO08	Weigh-In-Motion On-board CVO and Freight Safety and Security	CVO08	Smart Roadside and Virtual W





Required Approach for CAN_V3 Update * - Organization

- To align with the U.S., Canada *must* adopt the ARC-IT Service Package organization
 - For common Service Package, Canada to adopt reorganization (splitting, combining, etc.)
 - Any Canadian-unique Service Packages to integrate into appropriate grouping

Traffic Management	Public Transportation	Maintenance & Construction	Commercial Vehicle Operations
Public Safety	Parking Management	Vehicle Safety	Traveler Information
Data Management	Sustainable Travel	Weather	Support







New/Updated ARC-IT Elements

vsp



Element Type	Changes
Service Packages (137)	45 New
	81 Updated
Physical Objects (140)	45 New
	21 Updated
Information Flows (810)	312 New
Triples (1675)	874 New
Functional Objects (345)	136 New





Proposed Approach for CAN_V3 Update - New ARC-IT Elements

It is proposed that for CAN_V3 Canada include full adoption of the new Service Packages, as well as other the supporting elements.

- It is assumed that these additions are relevant to the ITS industry and environment in Canada
- Comprehensive review and identification of potentially
 non-relevant elements woul
 require significant effort
 (and may not identify any)
- Facilitates continued alignm
- Ongoing maintenance is minimized

Service Package	Name	Service Package	Name
CVO06	Freight Signal Priority	SU01	Connected Vehicle System Monitoring and
CVO09	Freight-Specific Dynamic Travel Planning		Management
CVO10	Road Weather Information for Freight Carriers	SU02	Core Authorization
CV011	Freight Drayage Optimization	SU04	Map Management
DM02	Performance Monitoring	SU05	Location and Time
PM02	Smart Park and Ride System	SU06	Object Registration and Discovery
PM06	Loading Zone Management	SU07	ITS Communications
PS06	Incident Scene Pre-Arrival Staging Guidance for	SU08	Security and Credentials Management
	Emergency Responders	SU09	Device Certification and Enrollment
PS07	Incident Scene Safety Monitoring	SU10	Center Maintenance
опо	Intermittent Bus Lanes	SU11	Field Equipment Maintenance
וודכ	Transit Pedestrian Indication	SU12	Vehicle Maintenance
PT12	Transit Vehicle at Station/Stop Warnings	SU13	Personal Device Maintenance
2173	Vehicle Turning Right in Front of a Transit	TM04	Connected Vehicle Traffic Signal System
	Vehicle	TM11	Road Use Charging
PT15	Transit Stop Request	TM12	Dynamic Roadway Warning
PT16	Route ID for the Visually Impaired	TM20	Variable Speed Limits
PT17	Transit Connection Protection	TM21	Speed Harmonization
STO2	Eco-Traffic Signal Timing	TM22	Dynamic Lane Management and Shoulder
ST03	Eco-Traffic Metering		Use
ST05	Electric Charging Stations Management	TM23	Border Management Systems
ST08	Eco-Approach and Departure at Signalized	VS07	Road Weather Motorist Alert and Warning
	Intersections	VS08	Queue Warning
STO9	Connected Eco-Driving	VS12	Pedestrian and Cyclist Safety
STIO	Low Emissions Zone Management	VS17	Traffic Code Dissemination
🔸 📕 Transpo	ort Transports		



Use computer or mobile to access:

menti.com







Proposed Approach for CAN_V3 Update - Updated ARC-IT Elements

It is proposed that for CAN_V3 Canada also include full adoption of the many updates and modification in ARC-IT.

- It is assumed that these additions are relevant to the ITS industry and environment in Canada
- Comprehensive review and identification of potentially non-relevant elements would require significant effort (and may not identify any)
- Facilitates continued alignment with the U.S.
- Ongoing maintenance is minimized





Use computer or mobile to access:

menti.com







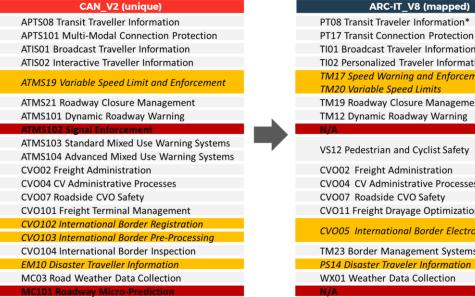
Canadian-Unique Functionality

<u>\\S</u>D

Proposed Approach for CAN V3 Update - Canadian-Unique Functionality

It is proposed that the 'still Canadian-unique' Service Packages, as wells as supporting elements (i.e. physical elements, information flows, and functional objects) be reviewed and assessed by stakeholders and the project steering with respect to the following:

- Whether it still relevant, as the industry may have evolved, and ARC-IT V8 may support CAN_V2 (unique) APTS08 Transit Traveller Information industry-standard approaches. APTS101 Multi-Modal Connection Protection
- Whether a unique reference or clarification is specifically necessary, or whether the content in ARC-IT V8 is sufficient.





ARC-IT_V8 (mapped)







Proposed Approach for CAN_V3 Update - Canadian-Unique Functionality

For those functionalities that are assessed as warranted, it is proposed that the CAN_V3 update limit unique functionality, and unique supporting elements, to separate Canadian-specific Service Packages. The reasons and benefits of this approach include:

- Common Service Packages that are mapped directly, with 1-to-1 mapping of common physical objects, flows/triples, and functional objects
- Facilitates continued alignment with the U.S.
- Ongoing maintenance is minimized
- The U.S., if they choose to, may link to the Canadian-unique Service Packages similar to those of Australia.



Service Package	Name	Scope/Function
CVO16	Electronic Work Diaries	 Designed to collect information salient to the operation of a commercial vehicle, to log driver activity (work), and to report that information to regulators as well as fleet managers.
CVO17	Intelligent Access Program	 Enables commercial vehicle operators simplified access to permit operations in exchange for remote compliance monitoring.
CVO18	Intelligent Access Program - Weight Monitoring	 Enables commercial vehicle operators simplified access to permit operations in exchange for remote weight monitoring.
CVO19	Intelligent Speed Compliance	 Uses the Clobal Navigation Satellite System (CNSS) to independently monitor the speed of a heavy vehicle and provide that information to regulatory authorities.





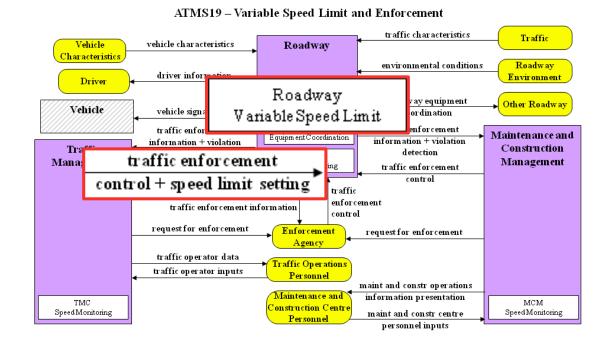
This will avoid this scenario the last update

US_V6 Service Package

driver information roadway equipment Driver Other Roadway Roadway coordination vehicle characteristics traffic characteristics Vehicle Traffic Characteristics 🧷 speed monitoring Roadway environmental conditions Traffic Environment information Roadway Management Equipment Coordination speed monitoring speed monitoring information Maintenance and Roadway control Construction Speed Monitoring speed monitoring Management control traffic violation notification + speed speed monitoring information monitoring control request for enforcement Enforcement request for enforcement Agency traffic operator data **Traffic Operations** traffic operator inputs Personnel maint and constr operations Maintenance and information presentation TMC MCM Construction Center Speed Monitoring Speed Monitoring maint and constr center Personnel personnel inputs

ATMS19 – Speed Monitoring

CAN_V2 Service Package



Service Package with Unique Elements (in comparison to US_V6)



****\$|1



Use computer or mobile to access:

menti.com







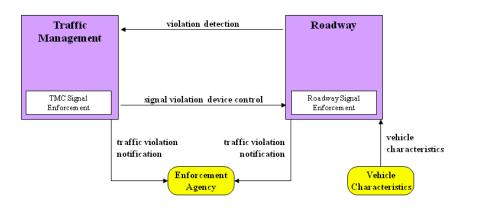
Consider the Fully Unique Service Packages - Signal Enforcement



Supports the detection and enforcement of roadway control signals. A common implementation of this capability is "red light enforcement" for signalised intersections. ...

— There are many examples of red light camera programs in Canada

ATMS102 – Signal Enforcement





Use computer or mobile to access:

menti.com

Accesscode: **18 69 63**

vsp



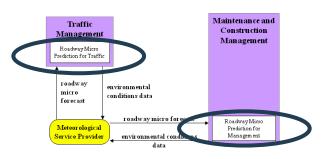


Consider the Fully Unique Service Packages - Roadway Micro-Prediction



Supports advanced systems which use the data from the Roadway and Weather Data Fusion service package, along with roadway maintenance information and advanced algorithms, to create micropredictions of roadway conditions which can support improved maintenance planning and dispatch.

- Related ARC-IT Support
 - MCM Maintenance Decision Support in MCO4: Winter Maintenance
 - TMC Environmental Monitoring in WX03: Spot Weather Impact Warning and other Service Packages



MC101 - Roadway Micro-Prediction





Use computer or mobile to access:

menti.com







Consider Service Packages with Unique Elements - Variable Speed Limits and Enforcement



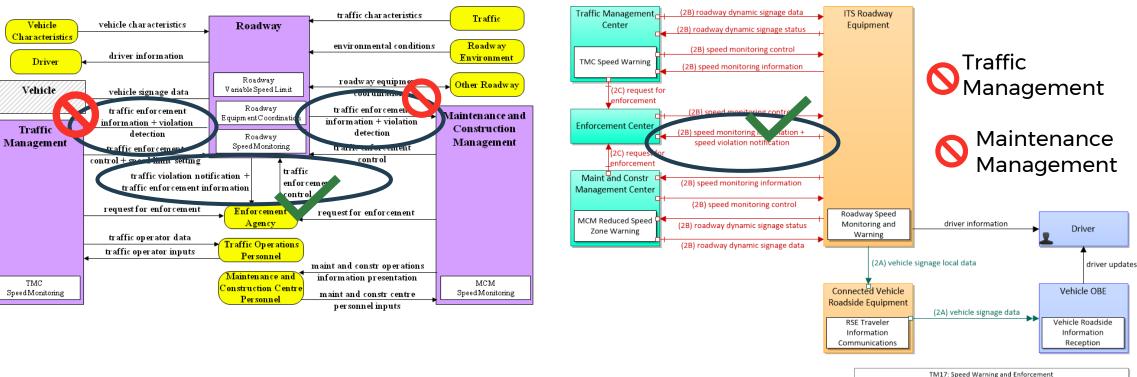
ARC-IT_V8 Service Package

4

Physical

TM17: Speed Warning and Enforcement

CAN_V2 Service Package



Transport

Canada

Transports

Canada

ATMS19 – Variable Speed Limit and Enforcement

Description of uniqueness is in Table 6



NAT

Aug 7, 2018

Use computer or mobile to access:

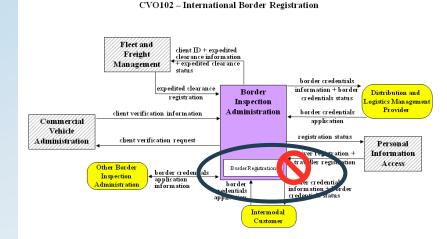
menti.com



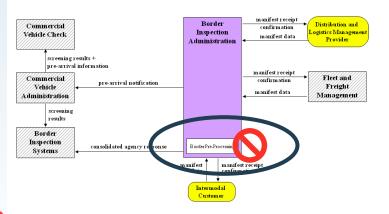




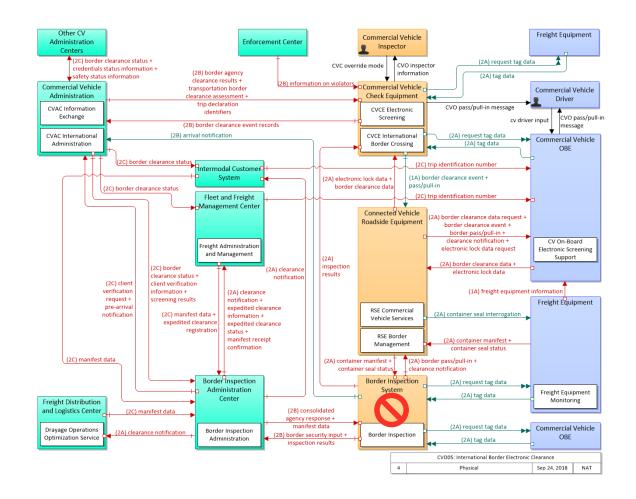
Consider Service Packages with Unique Elements - Border Registration and Pre-Processing



CVO103 – International Border Pre-Processing



CVO05: International Border Clearance







Transport Transports Canada Canada

Use computer or mobile to access:

menti.com







Consider Service Packages with Unique Elements - Disaster Traveller Information

Transport

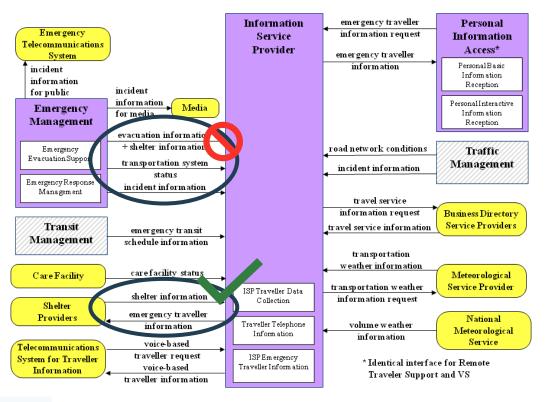
Canada

Transports

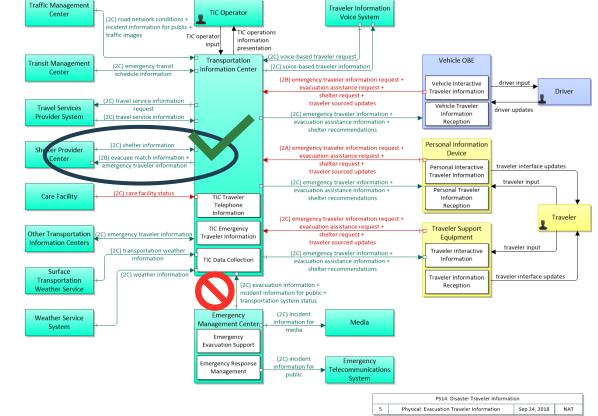
Canada



EM10 – Disaster Traveller Information



PS14: Disaster Traveler Information





Use computer or mobile to access:

menti.com







Canadian-Unique Names

vsp

Consider Element Names

Туре	CAN_V2 Name	US_V6 Name	ARC-IT_V8 Name
Service Package	Automated Highway System	Automated Vehicle Operations	Automated Vehicle Operations
	Hazardous Material Planning and Incident Response	HAZMAT Management	HAZMAT Management
	Multimodal Operations Coordination	Railroad Operations Coordination	Railroad Operations Coordination
	Pre-Collision Restraint Deployment	Pre-Crash Restraint Deployment	Autonomous Vehicle Safety Systems V2V Basic Safety
	Roadside Hazardous Material Security Detection and Mitigation	Roadside HAZMAT Security Detection and Mitigation	Roadside HAZMAT Security Detection and Mitigation
	Traffic Forecast and Demand Management	Traffic Decision Support and Demand Management	Integrated Decision Support and Demand Management
	Traveller Services Payment and Reservation	Yellow Pages and Reservation	Travel Services Information and Reservation
	Variable Speed Limit and Enforcement	Speed Monitoring	Speed Warning and Enforcement Variable Speed Limits
	Business Directory Service Providers	Yellow Pages Service Providers	Travel Services Provider System
	Department of Motor Vehicles	DMV	DMV
Physical	Intermodal Customer	Intermodal Freight Shipper	Intermodal Customer System
Objects	Intermodal Freight Equipment	Freight Equipment	Freight Equipment
	Intermodal Terminal Meteorological Service Provider	Intermodal Freight Depot Surface Transportation Weather Service	Intermodal Terminal Surface Transportation Weather Service
	business directory information	yellow pages information	travel services information
	business directory request Commercial Vehicle Check override mode	yellow pages request CVC override mode	<i>travel services request</i> CVC override mode
Information Flows	traffic enforcement control	speed monitoring control	speed monitoring control
FIOWS	traffic enforcement information	speed monitoring information	speed monitoring information
	volume weather information	weather information	weather information
Functional	Infrastructure Provided Business Directory	Infrastructure Provided Yellow Pages and	TIC Travel Services Information and
Objects	Service and Reservation	Reservation	Reservation

vsp





Use computer or mobile to access:

menti.com

Accesscode: **18 69 63**

Note: multiple







Canadian-Unique Spelling

vsp

Consider 'Canadian' Spelling

Element Type	Center		Traveler	
Element Type	Name	Description	Name	Description
Service Package	1	22	4	22
Physical Object	33	58	4	18
Information Flow	10	27	28	65
Functional Object	26	88	15	61
TOTAL	70	195	51	166





Use computer or mobile to access:

menti.com







Consider Country-specific References

Element Name	e Element Descriptiona			
(CAN_V2)¤	CAN_V2¤	CAN_V2a US_V6a		
Department of ∙ Motor · Vehicles¤	This terminator represents a specific (stateprovincial) public organization responsible for registering vehicles, e.g., the Ministry of Transportation Department of Motor Vehicles.0	This terminator represents a specific (state) public organization responsible for registering vehicles, e.g., the Department of Motor Vehicles.0	This terminator represents The 'DMV' is a specific (state) public organization responsible for registering vehicles, e.g., the Department of Motor Vehicles.0	
Government∙ Reporting∙Systems≎	This terminator represents the system and associated personnel that prepare the inputs to support the various local, stateprovincial, and federal government transportation data reporting requirements (e.g. Highway) Performance Monitoring System, Fatality Analysis Reporting System) using data collected by ITS systems. This terminator represents a system interface that would provide access to the archived data that is relevant to these reports. In most cases, this This terminator would manually combine data collected from the ITS archives with data from non ITS sources to assemble and submit the required information.0	This terminator represents the system and associated personnel that prepare the inputs to support the various local, state, and federal- government transportation data reporting requirements (e.g. Highway Performance Monitoring System, Fatality Analysis Reporting System) using data collected by ITS- systems. This terminator represents a system interface that would provide access to the archived data that is relevant to these reports. In most cases, this terminator would manually combine data collected from the ITS archives with data from <u>non ITS</u> sources to assemble and submit the required information.	This terminator'Government Reporting Systems' represents the system and associated personnel that prepare the inputs to support the various local, state, and federal government transportation data reporting requirements (e.g. Highway Performance Monitoring System, Fatality Analysis Reporting System) using data collected by ITS systems. This terminator it represents a system interface that would provide provides access to the archived data that is relevant to these reports. In most cases, this terminator would manually system will combine data collected from the ITS archives with data from non-ITS sources to assemble and submit the required information.0	







Use computer or mobile to access:

menti.com







3.0 Next Steps

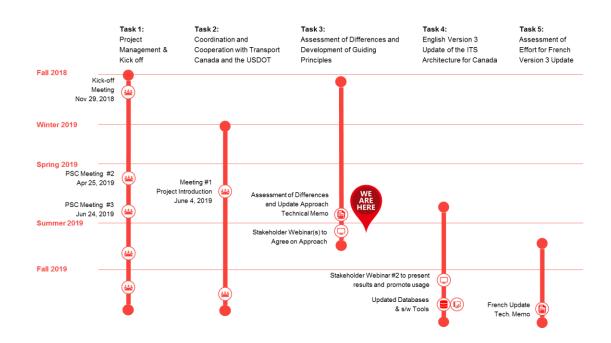




\\SD

Next Steps

- Complete Task 3
 - Online Survey until August 9
 - Reconcile feedback from Webinar & Survey
 - Review with Transport Canada and Steering Committee
 - Finalize approach
- Complete Update
- Scope French Update









Thank you!



Transport Transports Canada

NSD